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Soil
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Salt River
Valley
Water Users
Association

Arizona
Department of
Water
Resources

Water Supply Outlook for Arizona

Federal-State-Private Cooperative Snow Surveys



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COVER PHOTO - Fresh powder snow
on Elephant Mountain, near West
Fork of Hyalite Creek, Montana



Water Supply Forecasts for Arizona Continue to be Well Above Average for 1983

Water Supply

Above average water supplies are still anticipated for Arizona in 1983. Streamflow forecasts for the February-May period range from 114% to 195% of average on major streams. Streamflow on the Verde River is forecast at 114% of average, while the Salt River is expected to produce 149% of average flow. Tonto Creek is forecast at 125% of average. Inflow to the Salt River Project system is expected to total 713,000 acre-feet between February 1 and May 31. The Gila River at Solomon is forecast to run 185% of average. The upper Gila is forecast at 164% to 173% of average. Discharge on the San Francisco River is expected to be near 195% of average. The upper Little Colorado River is forecast to produce 160% of average discharge.

Snow Cover

The Arizona snowpack decreased in percent of average by mid-January, but the actual water equivalent did not change much between January 1 and 15 except at elevations below 7000 feet. Snow deposited during the latter part of January brought the water equivalent back to above average levels. Near February 1 the snowpack was 155% of average on the Verde and upper Little Colorado River Watersheds, 178% of average on the Salt River, and 218% of average on the Gila-San Francisco drainage.

Precipitation

The first two weeks of January were essentially storm free. During the last two weeks two major storm periods developed. The first occurred between January 18 and 20. Snotel reports indicate that the Salt River and Gila River watersheds received the major effects. The second storm, or actually series of storms, crossed the watersheds between January 27 and 30. These were widespread, affecting the entire state. These storms produced above normal precipitation for January over most of the watersheds. The storm systems have continued to cross Arizona as the month of February begins.

Streamflow

January streamflow was above average, primarily as a result of the storms at the end of the month. Salt River Project inflow was 140,000 acre-feet. Discharge of the Gila River at Solomon was 35,000 acre feet. January streamflow is represented in the following table:

<u>Stream</u>	<u>Flow-% of Average January 1983</u>
Salt River	156
Tonto Creek	217
Verde River	115
Gila River at Solomon	137
Gila River at Virden	106
San Francisco River at Clifton	138

Reservoir Storage

Salt River Project reports that on February 1 the combined storage of six reservoirs was 1,714,000 acre-feet. This is 85% of capacity. Storage in San Carlos Reservoir on February 1 was 190,500 acre-feet. This is only 20% of capacity, but substantially greater than the 153,000 acre-feet reported on January 1. Lake Pleasant is 80% full with 126,000 acre-feet. Lakes Havasu, Mohave, Mead, and Powell on the Colorado River have a combined storage of 48,570,000 acre-feet at 91% of capacity.

**ABOUT FEBRUARY
STREAMFLOW FORECASTS**
1, 1983

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average		THOUSAND ACRE FEET	Last Year
SALT RIVER DRAINAGE					
Salt near Roosevelt	450	149	Feb-May	426.8	302.3
"	85	172	February	74.1	49.3
Tonto Creek near Roosevelt	53	125	Feb-May	116.5	42.3
"	17	125	February	41.2	13.6
Verde River above Horseshoe	210	114	Feb-May	423.9	184.0
"	45	107	February	117.5	42.2
Total Salt River Project Streams	713	135	Feb-May	967.2	528.6
"	147	140	February	232.8	105.1
GILA RIVER DRAINAGE					
Gila River at Calva	168	177	Feb-May	70.4	94.8
Gila River near Gila	86	164	Feb-May	62.2	52.5
Gila River near Solomon	240	185	Feb-May	131.3	130.0
"	60	171	February	19.6	35.1
Gila River near Virden	115	173	Feb-May	81.7	66.6
Frisco River at Clifton	125	195	Feb-May	44.9	64.0
Frisco River at Glenwood	55	185	Feb-May	16.6	29.8
LITTLE COLORADO RIVER DRAINAGE					
Little Colo. River above					
Lyman Dam	17.9	161	Feb-June	---	11.1
Greer	10.4	137	Feb-June	---	7.6
GRANITE CREEK DRAINAGE					
Granite Creek	13.5	---	Feb-May	---	---
Willow Creek	11.0	---	Feb-May	---	---
MIMBRES RIVER DRAINAGE					
Mimbres River near Mimbres	11.2	---	Feb-May	1.4	---
COLORADO RIVER DRAINAGE					
Virgin River near Littlefield	72.0	150	Apr-June	49.1	47.9
Lake Mary Inflow	5.0	102	Feb-May	---	4.9

† Based on 15-year period, 1963-77
 * Average for less than 15 years

WATER SUPPLY INVENTORY SALT RIVER VALLEY SYSTEM

IN ACRE-FEET

AVERAGE WATER SUPPLY
FEBRUARY 1

ANTICIPATED WATER SUPPLY
FEBRUARY 1, 1983

3,000,000

2,500,000

2,000,000

1,500,000

1,000,000

500,000

0

Average
February-May
Runoff

Average
Summer
Runoff

Average
February 1
Reservoir
Storage

Forecast Runoff
February-May
1983

Average Summer
Runoff

Reservoir Storage
February 1, 1983

Based on Present Storage + Forecast Spring Runoff + Average Summer Runoff

RESERVOIR STORAGE (Thousand Acre Feet) FEBRUARY 1, 1983

BASIN or STREAM	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
<u>GILA RIVER DRAINAGE</u>					
Agua Fria	Lake Pleasant	157.6	126.5	59.5	71.1
Granite	Watson Lake	4.7	4.5	2.5	2.5
Granite	Willow Creek	6.1	3.8	0.9	2.5**
Gila	San Carlos	935.0	190.5	244.2	232.8
Gila	Painted Rock Dam	2,492	17.4	0	---
Salt (4)	Roosevelt, Apache, Canyon & Saguaro	1,709	1,492	1,089	1,186
Verde (2)	Bartlett and Horseshoe	309.6	222.0	106.7	124.5
Salt and Verde	6 Salt River Project Reservoirs	2,019	1,714	1,196	1,311
<u>COLORADO RIVER DRAINAGE</u>					
Colorado	Lake Havasu	619.4	532.6	542.7	543.8
Colorado	Lake Mohave	1,810	1,707	1,643	1,658
Colorado	Lake Mead	26,159	23,921	23,083	17,576
Colorado	Lake Powell	25,002	22,409	19,608	10,038
Little Colorado	Lyman	30.6	---	14.4	15.0
Little Colorado	Show Low Lake	5.1	1.6	0.2	1.4

† Based on 15-year average, 1963-77

* Average is for less than 15 years of record

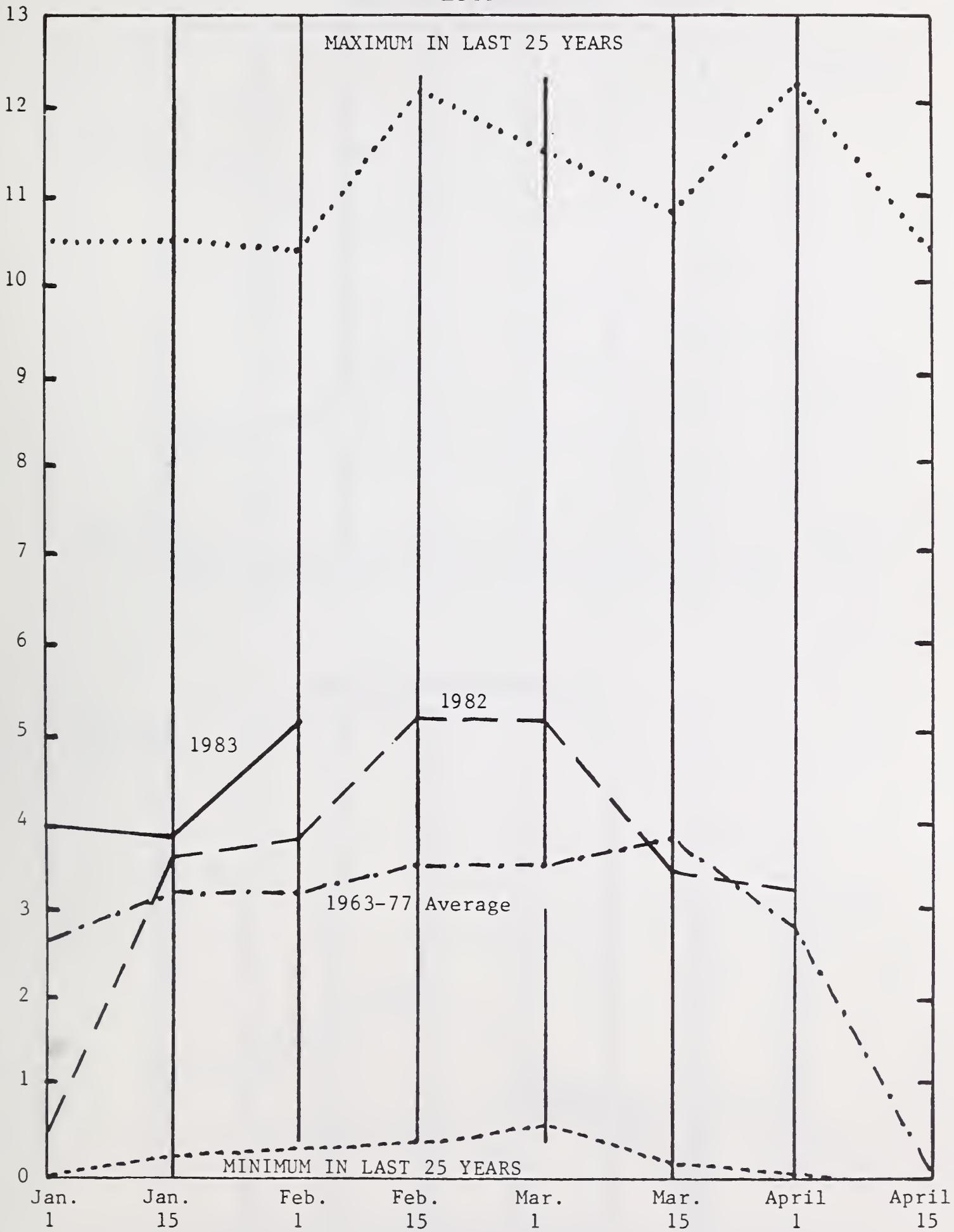
SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average
<u>ABOUT JANUARY 15, 1983</u>			
Gila	10	179	153
Salt	10	131	138
Verde	10	90	138
Little Colorado	5	109	122
<u>ABOUT FEBRUARY 1, 1983</u>			
Gila	10	285	218
Salt	10	170	178
Verde	10	85	155
Little Colorado	5	142	155

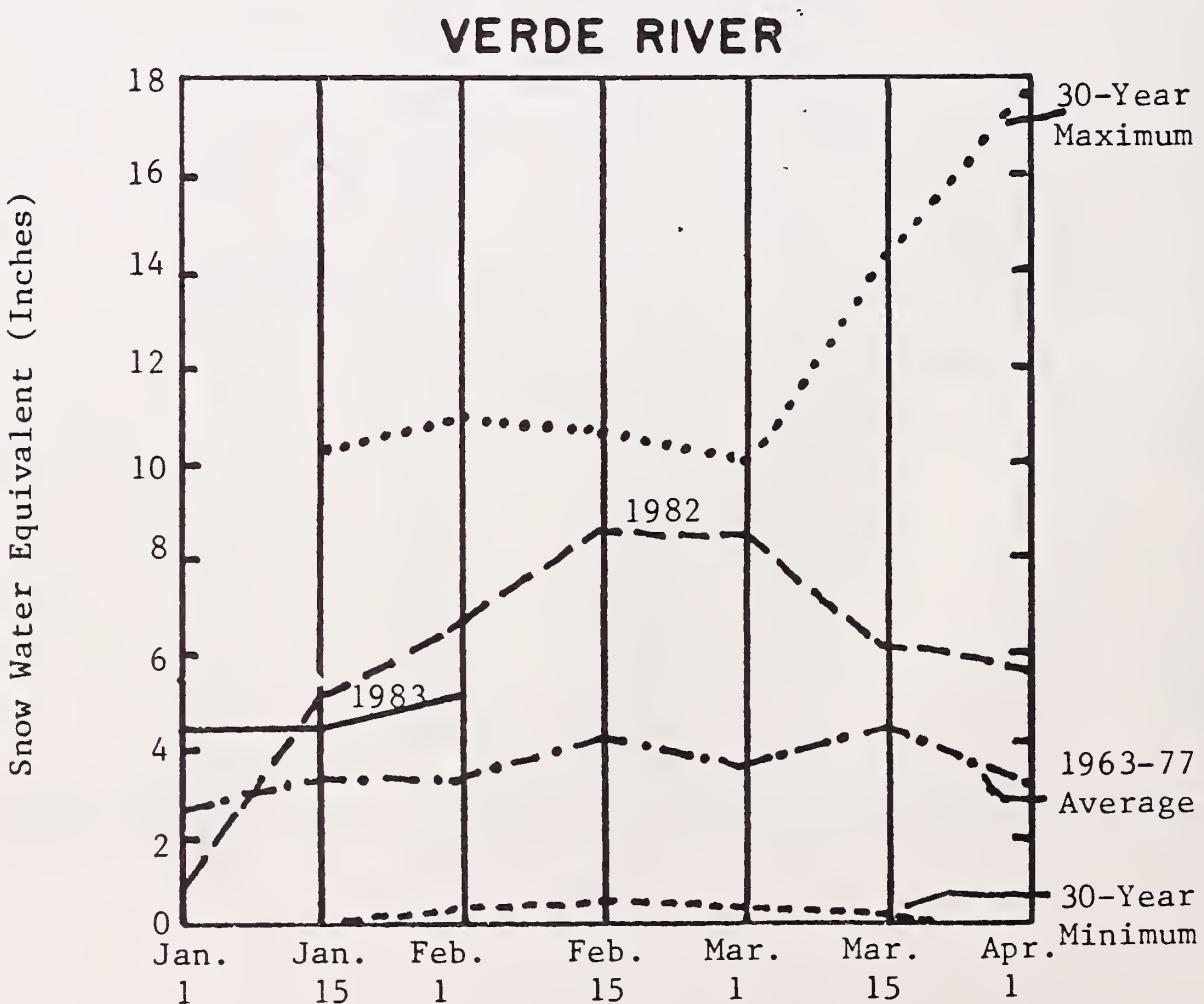
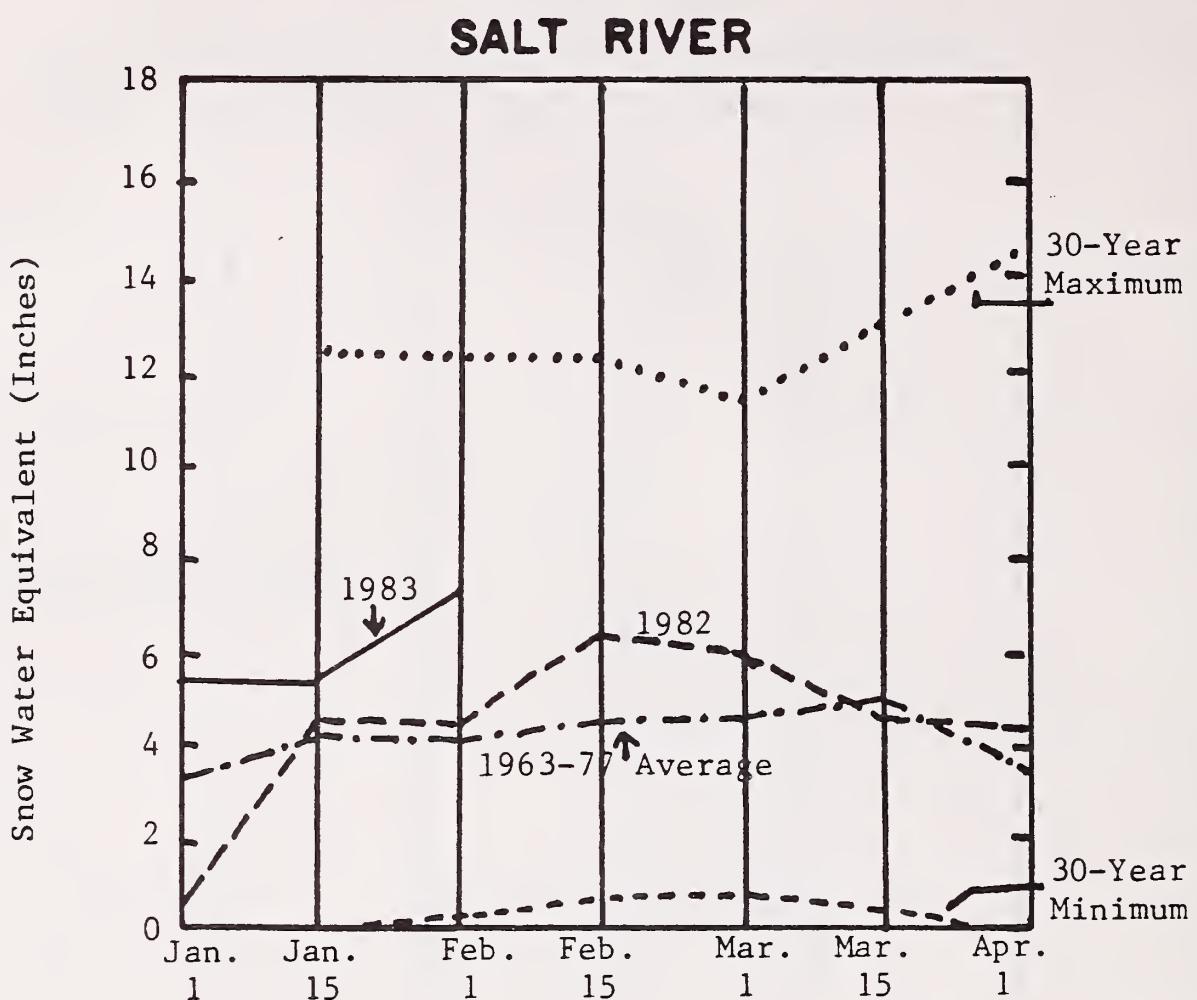
ARIZONA

AVERAGE SNOW COVER

1983



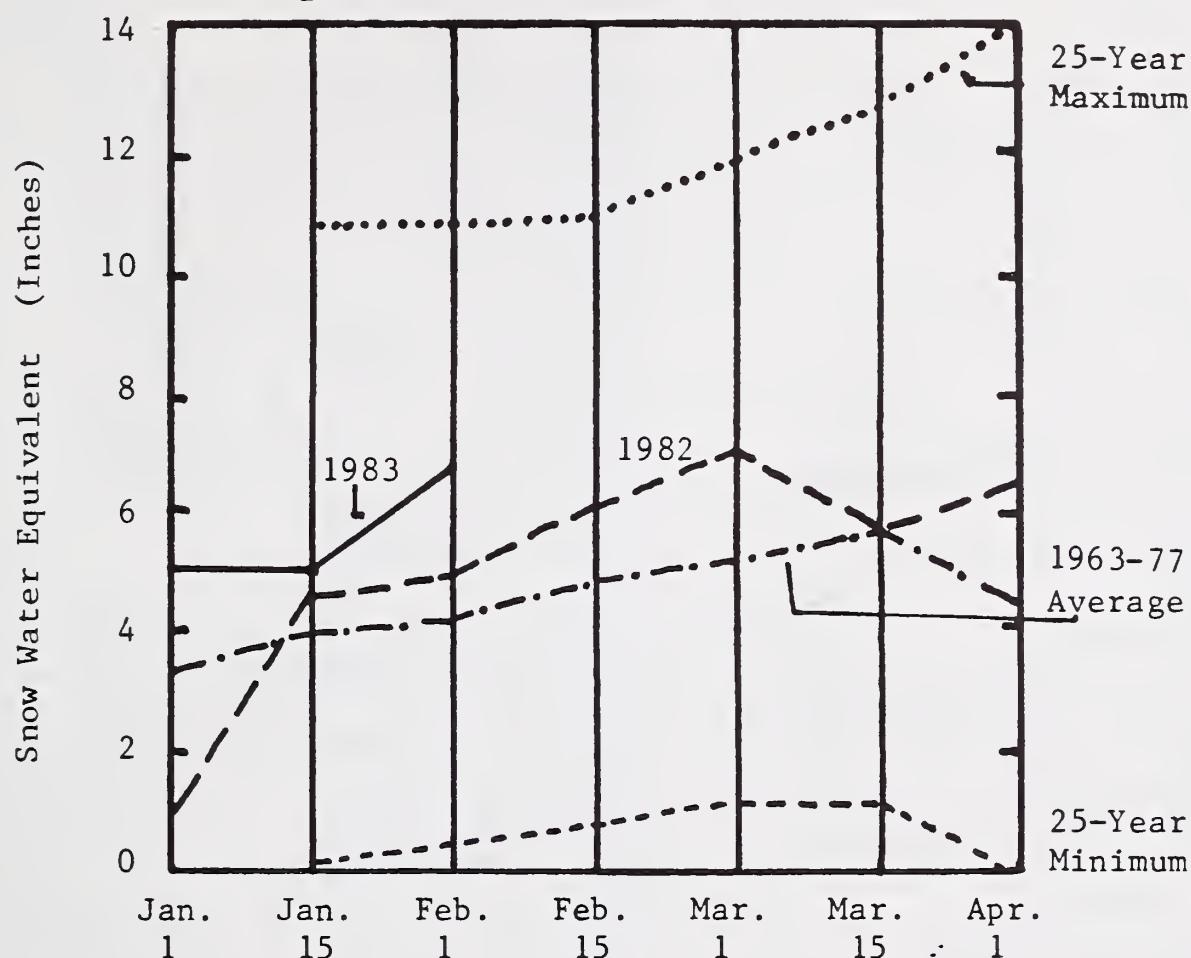
WATERSHED SNOW COVER



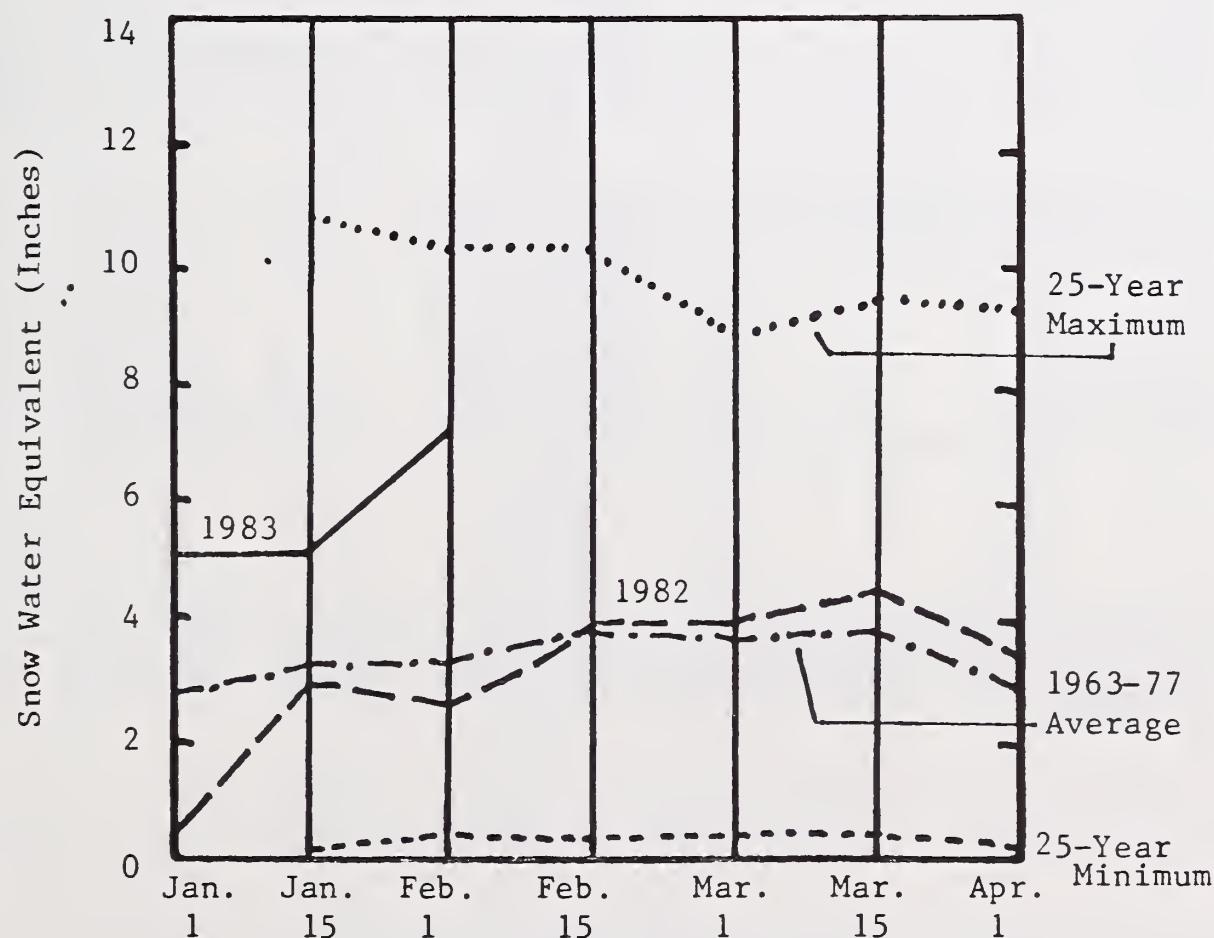
WATERSHED SNOW COVER

1983

LITTLE COLORADO RIVER



GILA RIVER



SNOW ABOUT JANUARY 15, 1983

DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
			Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
SALT RIVER						
Baldy *	9220	1/12	28	6.4	5.4	4.7
BALDY SNOTEL	9220	1/15	--	7.9	5.1	---
Beaver Head	8000	1/12	15	4.7	2.8	2.8
BONITO ROCK SNOTEL	8270	1/15	--	8.1	5.6	---
Canyon Creek	7500	1/13	12	3.9	4.1	3.4
Canyon Point	7600	1/13	15	4.8	6.5	3.6**
Coronado Trail	8400	1/12	15	4.9	3.2	2.7
CORONADO TRAIL SNOTEL	8400	1/15	--	3.4	2.5	---
Forest Dale	6430	NO SURVEY			1.3	1.8
Ft. Apache	9160	1/12	27	7.1	5.6	4.9
Hannagan Meadows	9090	1/12	35	11.8	6.1	5.8**
HANNAGAN MEADOWS SNOTEL	8960	1/15	--	11.9	5.9	---
Hawley Lake	8250	NO SURVEY			6.3	4.8**
HAWLEY LAKE SNOTEL	8250	NO REPORT			5.9	---
Heber	7640	1/13	12	4.2	5.1	3.5
HEBER SNOTEL	7640	1/15	--	3.5	5.5	---
Maverick Fork	9050	NOT SCHEDULED			4.3E	5.6
MAVERICK FORK SNOTEL	9200	1/15	--	10.2	4.3	---
McNary	7225	NO SURVEY			2.9	2.7
MCNARY SNOTEL	7225	1/15	--	0.5	2.8	---
Milk Ranch	7000	NO SURVEY			1.8	1.9
Mt. Ord (A)	11000	NOT SCHEDULED			---	---
Nutrioso *	8500	1/12	8	2.9	1.3	2.1
Promontory Butte	7900	NO SURVEY			10.9	7.0**
PROMONTORY SNOTEL	7900	NO REPORT			---	---
Smith Cienega (A)	9850	NOT SCHEDULED			---	---
Sunrise Summit	10600	1/13	38	11.9	9.5	9.8**
Wilson Lake	9000	1/13	30	8.1	7.6	6.1**
Workman Creek	6900	1/17	11	5.0	4.9	5.0
WORKMAN CREEK SNOTEL	6900	1/15	--	1.7	5.8	---
LOWER COLORADO RIVER						
Bill Williams Intermediate	8550	1/12	30	7.5	8.2	5.2**
Bill Williams Summit	8950	1/12	37	10.0	7.9	6.1**
Bright Angel	8400	1/12	34	10.8	5.1	---
Chalender *	7100	1/13	7	1.6	4.0	2.3
Fort Valley	7350	1/12	10	3.5	3.4	1.6
Grand Canyon	7500	1/12	5	2.0	2.6	1.9
Williams Ski Run	7720	1/12	24	7.6	7.2	4.6**

† 1963-77 15-year period. (*) Adjacent drainage. (**) 1963-77 Adjusted Average. (A) Aerial observation: water content estimated. Snotel data is edited.

SNOW ABOUT JANUARY 15, 1983

DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
NAME	Elevation		Snow Depth (inches)	Water Content (inches)	Last Year	Average +
GILA RIVER						
Bear Wallow	8100	NO SURVEY			8.0	3.2
Beaver Head	8000	1/12	15	4.7	2.8	2.8
Coronado Trail	8400	1/12	15	4.9	3.2	2.7
CORONADO TRAIL SNOTEL	8400	1/12	--	3.5	2.5	---
Emory Pass #2 *	7800	1/12	11	3.5	1.2	1.7**
Frisco Divide	8000	1/12	12	3.3	1.3	2.4
FRISCO DIVIDE SNOTEL	8000	1/15	--	3.9	2.1	---
Hannagan Meadows *	9090	1/12	35	11.8	6.1	5.8**
HANNAGAN MEADOWS SNOTEL	8960	1/15	--	11.9	5.9	---
Hummingbird (A)	10550	NOT SCHEDULED			---	9.3**
LOOKOUT MOUNTAIN SNOTEL	8150	1/15	--	5.0	2.6	---
McKnight Cabin * (A)	9300	NOT SCHEDULED			---	3.4**
Mogollon	7000	NO SURVEY			---	1.4
Nutrioso	8500	1/12	8	2.9	1.3	2.1
Redstone Trail	8600	NO SURVEY			---	5.2
Rose Canyon	7300	NO SURVEY			4.8	2.1
SIGNAL PEAK SNOTEL	8360	1/15	--	5.5	6.6	---
Silver Creek Divide	9070	NO SURVEY			---	7.2**
SILVER CREEK SNOTEL	9070	1/15	--	9.7	5.8	---
State Line	8000	1/12	14	4.0	1.6	2.5
Whitewater (A)	10750	NOT SCHEDULED			---	11.0**
VERDE RIVER						
Baker Butte	7330	1/13	17	6.1	5.6	4.6**
BAKER BUTTE SNOTEL	7330	1/15	--	7.3	4.2	---
Baker Butte #2	7700	1/13	34	12.1	9.9	6.8**
Camp Wood	5700	1/12	0	0.0	0.2	0.9
Chalender *	7100	1/13	7	1.6	4.0	2.3
Copper Basin Divide	6720	1/12	3	0.6	1.2	2.0
Fort Valley	7350	1/12	10	3.5	3.4	1.6
FRY SNOTEL	7200	1/15	--	3.8	5.1	---
Gaddes Canyon	7600	1/12	18	6.3	6.3	3.6
Happy Jack	7630	1/14	15	4.8	5.8	3.0
Iron Springs *	6200	1/12	0	0.0	0.6	0.7
Mingus Mountain	7100	1/12	T	0.0	1.1	1.1
Mormon Lake *	7350	1/12	13	3.9	5.8	3.5
Mormon Mountain	7500	1/12	18	6.5	6.9	4.1
MORMON MOUNTAIN SNOTEL	7500	1/15	--	5.6	5.5	---
Mormon Mtn. Summit #2	8470	NOT SCHEDULED			---	---
Newman Park	6750	1/12	T	0.5	4.8	2.4
Snow Bowl #1	10260	1/12	34	11.0	10.8	6.0
Snow Bowl #2	11000	1/12	48	16.2	8.7	9.2**
SUGAR LOAF SNOTEL	6120	1/15	--	0.0	3.2	---
White Horse Lake Jct.	7180	1/12	10	3.1	4.5	2.4**
WHITE HORSE LAKE SNOTEL	7180	1/13	--	4.5	7.1	---
White Spar	6000	1/12	0	0.0	0.3	1.0

* 1963-77 15-year period. (*) Adjacent drainage. (**) 1963-77 Adjusted Average. (A) Aerial observation: water content estimated. Snotel data is edited.

SNOW ABOUT JANUARY 15, 1983

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME	Elevation					Average +
<u>LITTLE COLORADO RIVER</u>						
Baldy	9220	1/12	28	6.4	5.4	4.7
BALDY SNOTEL	9220	1/15	--	7.9	5.1	---
Canyon Creek	7500	1/13	12	3.9	4.1	3.4
Canyon Point	7600	1/13	15	4.8	6.5	3.6**
Cheese Springs	8600	1/13	19	4.5	4.5	4.2**
Forest Dale	6430	NO SURVEY			1.3	1.8
Ft. Apache	9160	1/12	27	7.1	5.6	4.9
Fort Valley	7350	1/12	10	3.5	3.4	1.6
Happy Jack	7630	1/14	15	4.8	5.8	3.0
Heber	7640	1/13	12	4.2	5.1	3.5
HEBER SNOTEL	7640	1/15	--	3.5	5.5	---
Lake Mary	6970	1/12	9	3.5	3.3	---
McNary	7225	NO SURVEY			2.9	2.7
MCNARY SNOTEL	7225	1/15	--	0.5	2.8	---
Mormon Lake	7350	1/12	13	3.9	5.8	3.5
Mormon Mountain	7500	1/12	18	6.5	6.9	4.1
MORMON MOUNTAIN SNOTEL	7500	1/12	--	6.2	5.5	---
Mormon Mountain Summit #2	8470	NOT SCHEDULED			---	---
Nutrioso *	8500	1/12	8	2.9	1.3	2.1
Promontory Butte	7900	NO SURVEY			10.9	7.0**
PROMONTORY SNOTEL	7900	NO REPORT			---	---
Snow Bowl #1	10260	1/12	34	11.0	10.8	6.0
Snow Bowl #2	11000	1/12	48	16.2	8.7	9.2**
Wilson Lake	9000	1/13	30	8.1	7.6	6.1**

+ 1963-77 15-year period. (*) Adjacent drainage. (**) 1963-77 Adjusted Average. (A) Aerial observation: water content estimated. Snotel data is edited.

SNOW ABOUT FEBRUARY 1, 1983

DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
NAME	Elevation		Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
SALT RIVER						
Baldy *	9220	1/26	35	9.7	5.1	5.3
BALDY SNOTEL	9220	2/1	--	12.0	6.2	---
Beaver Head	8000	1/31	25	6.5	1.8	2.5
BONITA ROCK SNOTEL	8270	2/1	--	12.8	6.8	---
Canyon Creek	7500	1/27	8	3.0	4.9	3.5
Canyon Point	7600	1/27	12	3.8	6.4	3.8**
Coronado Trail	8400	1/31	30	7.0	2.4	2.4
CORONADO TRAIL SNOTEL	8400	2/1	--	4.0	2.9	---
Forest Dale	6430	N O	S U R V E Y		0.8	1.1
Ft. Apache	9160	1/26	38	10.7	6.1	5.6
Hannagan Meadows	9090	1/31	58	15.5	6.0	6.8
HANNAGAN MEADOWS SNOTEL	8960	2/1	--	16.9	7.0	---
Hawley Lake	8250	N O	S U R V E Y		7.6	5.7**
HAWLEY LAKE SNOTEL	8250	2/2	--	9.7	7.4	---
Heber	7640	1/27	8	2.6	5.3	3.5
HEBER SNOTEL	7640	2/1	--	4.8	7.0	---
Maverick Fork	9050	1/26	42	12.2	5.7	6.4
MAVERICK FORK SNOTEL	9200	2/1	--	14.5	5.0	---
McNary	7225	N O	S U R V E Y		3.4	2.2
MCNARY SNOTEL	7225	2/1	--	1.0	2.7	---
Milk Ranch	7000	N O	S U R V E Y		1.6	1.2
Mt. Ord (A)	11000	NOT SCHEDULED			---	---
Nutrioso *	8500	1/31	15	3.3	1.2	1.8
Promontory Butte	7900	N O	S U R V E Y		12.2	9.5**
PROMONTORY SNOTEL	7900	N O	R E P O R T		---	---
Smith Cienega (A)	9850	NOT SCHEDULED			---	---
Sunrise Summit	10600	1/27	46	13.8	11.0	11.0**
Wilson Lake	9000	1/27	37	9.4	8.4	7.1**
Workman Creek	6900	2/1	20	7.6	5.2	5.0
WORKMAN CREEK SNOTEL	6900	2/1	--	8.4	6.0	---
LOWER COLORADO RIVER						
Bill Williams Intermediate	8550	1/28	39	9.3	---	6.3**
Bill Williams Summit	8950	1/28	45	10.7	---	7.5**
Chalender *	7100	1/28	11	2.4	5.7	2.3
Fort Valley	7350	1/28	14	3.6	4.2	1.7
Grand Canyon	7500	1/30	10	2.1	3.4	1.6
Williams Ski Run	7720	1/28	32	7.2	9.9	5.4**
Bright Angel	8400	1/28	40	11.3	7.1	---

† 1963-77 15-year period. (*) Adjacent drainage. (**) 1963-77 Adjusted Average. (A) Aerial observation: water content estimated. Snotel data is edited.

SNOW ABOUT FEBRUARY 1, 1983

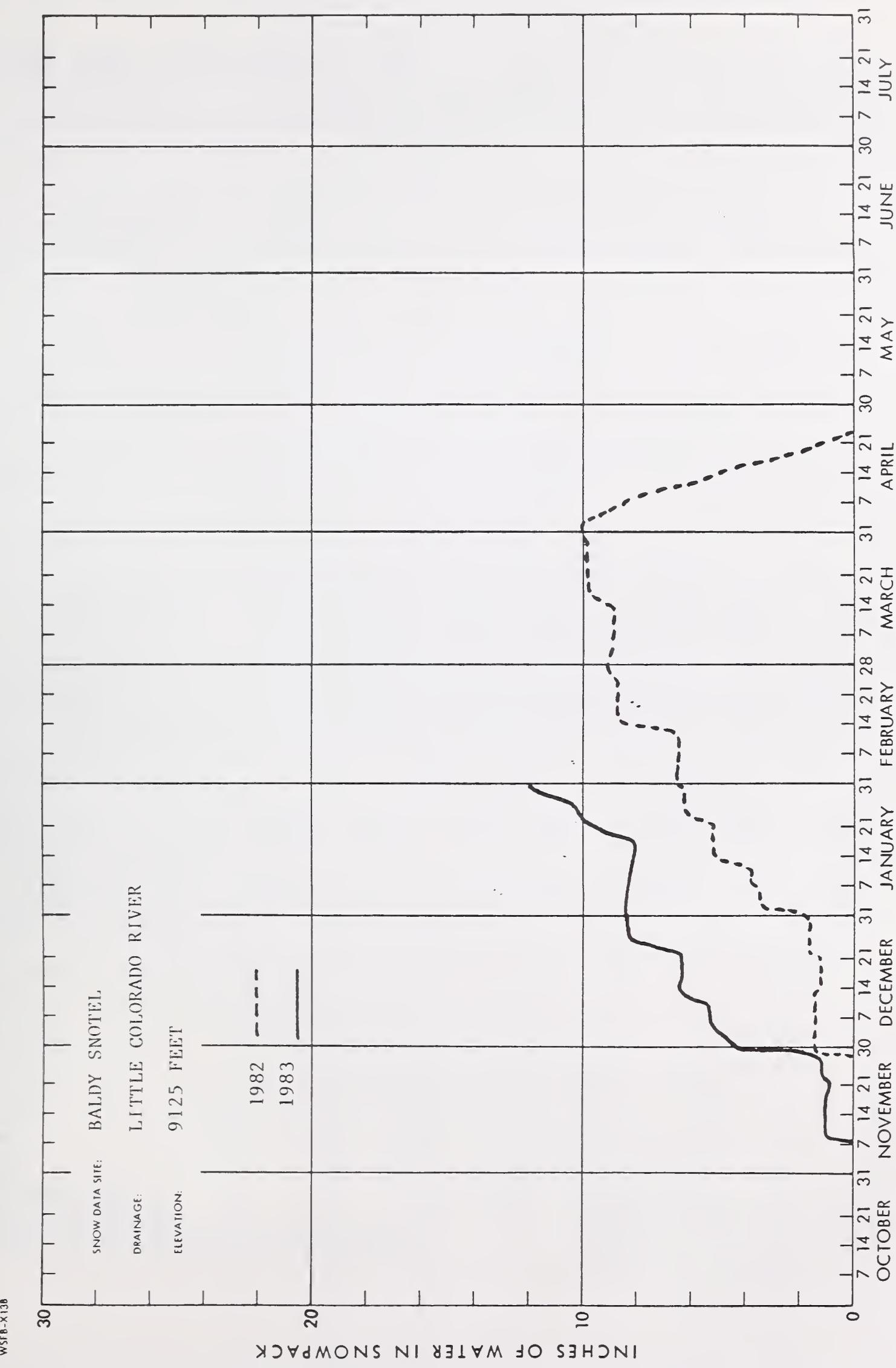
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
			Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
<u>GILA RIVER</u>						
Bear Wallow	8100	1/28	3	0.9	9.1	3.4
Beaver Head	8000	1/31	25	6.5	1.8	2.5
Coronado Trail	8400	1/31	30	7.0	2.4	2.4
CORONADO TRAIL SNOTEL	8400	2/1	--	4.0	2.9	---
Emory Pass #2 *	7800	1/27	11	3.9	1.0	1.5**
Frisco Divide	8000	1/28	16	4.0	1.3	2.1
FRISCO DIVIDE SNOTEL	8000	2/1	--	7.0	2.7	---
Hannagan Meadows *	9090	1/31	58	15.5	6.0	6.8**
HANNAGAN MEADOWS SNOTEL	8960	2/1	--	16.9	7.0	---
Hummingbird (A)	10550	2/2	86	19.9	8.1	10.4**
LOOKOUT MOUNTAIN SNOTEL	8150	2/1	--	6.2	3.0	---
McKnight Cabin * (A)	9300	2/2	36	9.0	6.4	3.4**
Mogollon	7000	N O	S U R V E Y		---	0.9
Nutrioso	8500	1/31	15	3.3	1.2	1.8
Redstone Trail	8600	N O	S U R V E Y		---	5.6
Rose Canyon	7300	1/28	2	0.6	6.6	2.1
SIGNAL PEAK SNOTEL	8360	2/1	--	9.0	7.2	---
Silver Creek Divide	9070	N O	S U R V E Y		---	8.1**
SILVER CREEK SNOTEL	9070	2/1	--	14.3	6.2	---
State Line	8000	1/28	21	5.6	1.3	2.4
Whitewater (A)	10750	2/2	96	20.2	14.4	12.7**
<u>VERDE RIVER</u>						
Baker Butte	7330	1/27	15	5.5	6.0	5.1**
BAKER BUTTE SNOTEL	7330	2/1	--	10.2	5.8	---
Baker Butte #2	7700	1/27	35	12.3	10.9	8.2**
Camp Wood	5700	LATE REPORT			1.0	0.6
Chalender *	7100	1/28	11	2.4	5.7	2.3
Copper Basin Divide	6720	1/27	0	0.0	2.0	1.6
Fort Valley	7350	1/28	14	3.6	4.2	1.7
FRY SNOTEL	7200	---	--	---	7.9	---
Gaddes Canyon	7600	1/28	23	6.9	8.4	3.7
Happy Jack	7630	1/28	22	5.6	7.2	3.1
Iron Springs *	6200	1/27	0	0.0	0.3	0.6
Mingus Mountain	7100	1/28	5	1.1	1.8	0.7
Mormon Lake *	7350	1/28	21	6.3	7.1	3.7
Mormon Mountain	7500	1/28	26	8.6	8.4	4.4
MORMON MOUNTAIN SNOTEL	7500	2/1	--	7.5	7.1	---
Mormon Mtn. Summit #2	8470	NOT SCHEDULED			---	---
Newman Park	6750	1/28	9	1.0	5.1	2.0
Snow Bowl #1	10260	1/28	44	11.2	13.1	7.0
Snow Bowl #2	11000	1/28	62	16.5	9.3	10.9**
SUGAR LOAF SNOTEL	6120	2/1	--	0.0	0.8	---
White Horse Lake Jct.	7180	1/28	15	4.1	5.6	2.6**
WHITE HORSE LAKE SNOTEL	7180	2/1	--	9.4	7.2	---
White Spar	6000	1/27	0	0.0	0.6	0.5

† 1963-77 15-year period. (*) Adjacent drainage. (**) 1963-77 Adjusted Average. (A) Aerial observation: water content estimated. Snotel data is edited.

SNOW ABOUT FEBRUARY 1, 1983

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
<u>LITTLE COLORADO RIVER</u>						
Baldy	9220	1/26	35	9.7	5.1	5.3
BALDY SNOTEL	9220	2/1	--	12.0	6.2	---
Canyon Creek	7500	1/27	8	3.0	4.2	3.5
Canyon Point	7600	1/27	12	3.8	6.4	3.8**
Cheese Springs	8600	1/27	24	5.5	5.7	4.7**
Forest Dale	6430	N O	S U R V E Y		0.8	1.1
Ft. Apache	9160	1/26	38	10.7	6.1	5.6
Fort Valley	7350	1/28	14	3.6	4.2	1.7
Happy Jack	7630	1/28	22	5.6	7.2	3.1
Heber	7640	1/27	8	2.6	5.3	3.5
HEBER SNOTEL	7640	2/1	--	4.8	7.2	---
Lake Mary	6970	1/28	11	3.8	5.0	---
McNary	7225	N O	S U R V E Y		3.4	2.2
MCNARY SNOTEL	7225	2/1	--	1.0	3.3	---
Mormon Lake	7350	1/28	21	6.3	7.1	3.7
Mormon Mountain	7500	1/28	26	8.6	8.4	4.4
MORMON MOUNTAIN SNOTEL	7500	2/1	--	7.5	7.1	---
Mormon Mtn. Summit #2	8470	NOT SCHEDULED			---	---
Nutrioso *	8500	1/31	15	3.2	1.2	1.8
Promontory Butte	7900	N O	S U R V E Y		12.2	9.5**
PROMONTORY SNOTEL	7900	N O	R E P O R T		---	---
Snow Bowl #1	10260	1/28	44	11.2	9.3	7.0
Snow Bowl #2	11000	1/28	62	16.5	13.1	10.9**
Wilson Lake	9000	1/27	37	9.4	8.4	7.1**

† 1963-77 15-year period. (*) Adjacent drainage. (**) 1963-77 Adjusted Average. (A) Aerial observation: water content estimated. Snotel data is edited.



PRECIPITATION (Inches) ABOUT FEBRUARY 1, 1983

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. NOV 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>GILA RIVER</u>							
Silver Creek Divide	9000	--	--	2.07*	--	8.26*	--
Hannagan Meadows **	9030	--	--	2.30	--	7.36	--
Frisco Divide **	8000	1/28	1.28	1.02	8.03	3.32	242
<u>SALT RIVER</u>							
Canyon Point	7600	1/27	1.70	2.96*	17.25	10.13*	170
Hannagan Meadows **	9030	--	--	2.30	--	7.36	---
Little Wildcat (Heber Snow Course)	7600	1/27	1.40	2.65	13.80	9.02	153
Maverick Fork	9050	1/26	2.30	2.39	13.32	7.72	173
Workman Creek **	6970	2/2	3.97	3.30	15.45	10.18	152
Wilson Lake	9100	1/27	1.70	1.98*	7.50	7.00*	107
<u>VERDE RIVER</u>							
Baker Butte	7300	1/27	1.36	2.70*	17.60	9.52*	185
Copper Basin Divide	6720	1/27	0.44	1.75	9.60	6.80	141
Fort Valley **	7350	1/28	1.43	1.44	9.49	5.22	182
Happy Jack **	7480	1/28	2.24	2.23	15.10	7.12	212
Mingus Mountain	7660	1/28	1.07	1.45	13.74	5.12	268
Mormon Mountain	7500	1/28	0.60	2.89	16.82	10.44	161
White Horse Lake Jct.**	7150	1/28	1.30	2.40	13.20	7.30	181
<u>LITTLE COLORADO</u>							
Greer Lakes	8500	1/27	1.20	.95	4.93	3.92	126
Little Wildcat (Heber Snow Course)	7600	1/27	1.40	2.65	13.80	9.02	153
Sheep Crossing (Baldy Snow Course)	9125	1/26	2.00	2.02	9.08	6.93	131
1963-77 Average							
* Adjusted Average							
** Data Supplied by U.S. Forest Service							

+ 1963-1977 period.

PRECIPITATION (Inches) ABOUT FEBRUARY 1, 1983 (SNOTEL SITES)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. NOV. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
GILA RIVER							
Coronado Trail	8400	2/1	3.2	---	10.2	---	---
Hannagan Meadows	8960	2/1	3.8	---	15.8	---	---
Frisco Divide	8000	2/1	2.2	---	8.9	---	---
Silver Creek Divide	9000	2/1	4.5	---	16.3	---	---
Lookout Mountain	8150	2/1	---	---	---	---	---
Signal Peak	8360	2/1	2.7	---	10.9	---	---
SALT RIVER							
Promontory Butte	7930	NO REPORT	---	---	---	---	---
Heber	7640	2/1	2.6	---	17.2	---	---
Hawley Lake	8250	2/2	3.7	---	16.2	---	---
McNary	7200	2/1	2.9	---	14.8	---	---
Bonita Rock	8270	2/1	4.4	---	17.2	---	---
Hannagan Meadows	8960	2/1	3.8	---	15.8	---	---
Maverick Fork	9050	2/1	3.2	---	14.3	---	---
Coronado Trail	8400	2/1	3.2	---	10.2	---	---
Workman Creek	6900	2/1	3.8	---	23.8	---	---
VERDE RIVER							
White Horse Lake Jct.	7180	2/1	2.0	---	13.8	---	---
Fry	7200	2/1	--	---	--	---	---
Mormon Mountain	7500	2/1	3.3	---	18.1	---	---
Sugar Loaf	6120	2/1	--	---	--	---	---
Baker Butte	7300	2/1	3.1	---	20.1	---	---
LITTLE COLORADO							
Baldy	9125	2/1	2.4	---	10.6	---	---
McNary	7200	2/1	2.9	---	14.8	---	---
Heber	7640	2/1	2.6	---	17.2	---	---
Promontory Butte	7930	NO REPORT	---	--	---	---	---
<i>Snotel data is edited</i>							

14

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12

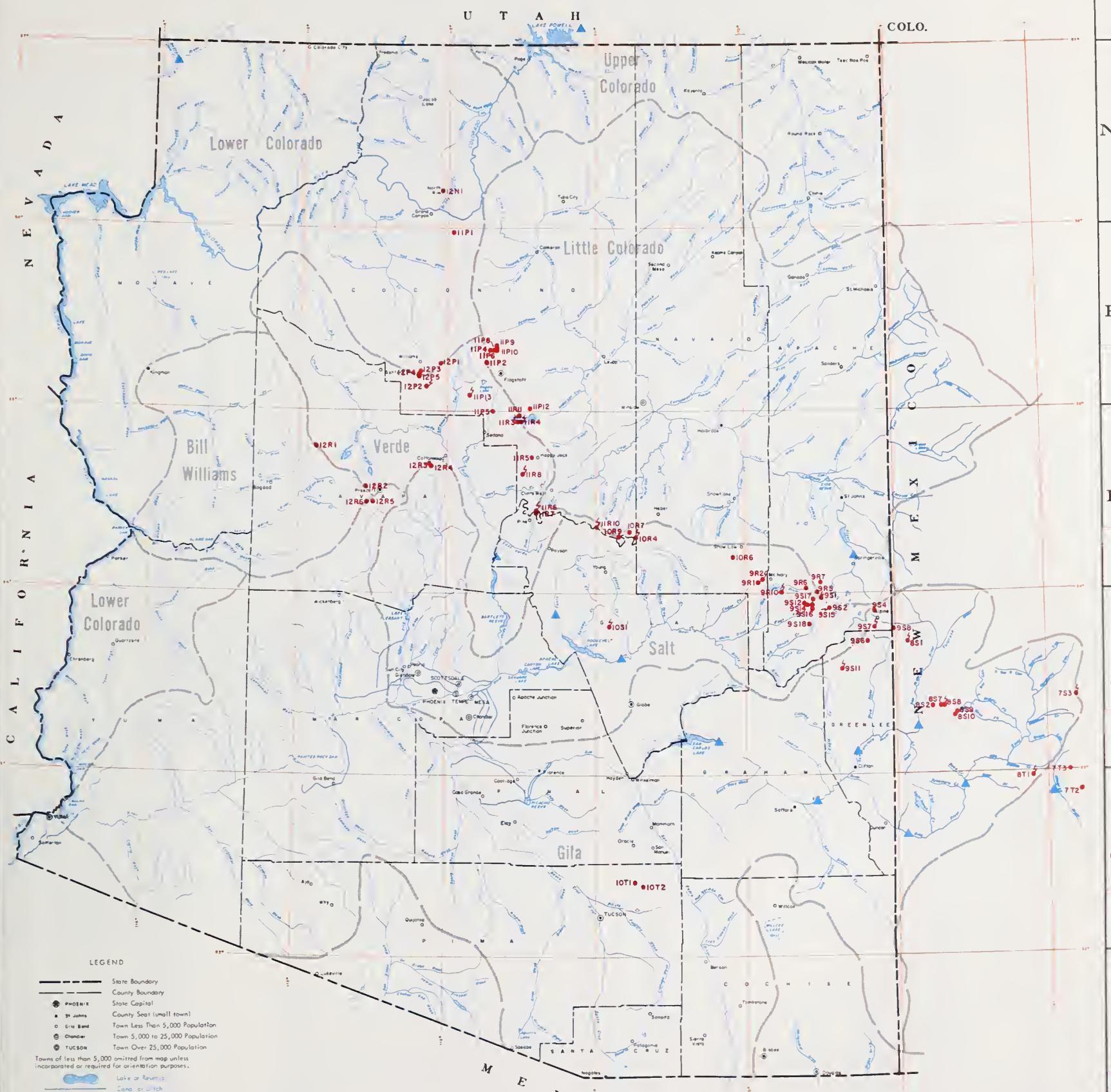
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SNOW COURSES AND RELATED DATA MEASURING SITES

ARIZONA

1983

INDEX TO SNOW COURSES

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.	DRAINAGE	OBSERVER	RECORD BEGAN
11P10A	Agassiz	32	23N	7E	11200	Little Colorado	SCS-CF*	1968
11R6PSPRT	Baker Butte	4	12N	9E	7300	Verde	SCS	1966
11R7	Baker Butte #2	9	12N	9E	7700	Verde	SCS	1971
9S1APSPRT	Baldy	28	7N	27E	9125	Little Colorado	SCS	1950
9S15	Baldy #2	12	6N	26E	9750	Little Colorado	SCS	1963
9S16	Baldy #3	13	6N	26E	10950	Little Colorado	SCS	1963
10T1	Bear Wallow	6	12S	16E	8100	Gila	FS	1948
9S6	Beaver Head	13	4N	30E	8000	San Francisco	FS	1938
12P5	Bill William Intermediate	17	21N	2E	8550	Cataract	FS	1967
12P4	Bill Williams Summit	17	21N	2E	8950	Verde	FS	1967
9S18PSPRT	Bonito Rock		5N	26E	8270	Salt	SCS	1979
12N1	Bright Angel	34	33N	3E	8400	Bright Angel Creek	NPS	1947
12R1	Camp Wood	3	16N	6W	5700	Verde	FS	1946
10R7	Canyon Creek #2	18	11N	15E	7500	Little Colorado	SCS	1958
10R9P	Canyon Point	28	11N	14E	7600	Salt	SCS	1967
12P1	Chalender	27	22N	3E	7100	Verde	FS	1947
9R7	Cheese Springs	28	8N	27E	8600	Little Colorado	SCS	1969
12R6P	Copper Basin Divide	23	13N	3W	6720	Verde	SCS	1963
9S7PSPRT	Coronado Trail	26	5N	30E	8000	San Francisco	FS	1938
7T2	Emory Pass #2	16	16S	9W**	7800	Mimbres	SCS	1967
11P13PSPRT	Fry	35	20N	5E	7220	Verde	SCS	1978
10R6	Forest Dale	2	9N	21E	6430	Salt	BIA	1939
9R5	Ft. Apache	18	7N	27E	9160	Little Colorado	SCS	1951
11P2P	Ft. Valley	22	22N	6E	7350	Little Colorado	FS	1947
8S1PSPRT	Frisco Divide	31	6S	20W**	8000	San Francisco	FS	1938
12R4	Gaddes Canyon	11	15N	2E	7600	Verde	SCS	1954
11P1	Grand Canyon	21	30N	4E	7500	Hance Creek	NPS	1947
9S11PSPRT	Hannagan Meadows	19	3N	29E	9090	San Francisco	FS	1964
11R5P	Happy Jack	30	16N	9E	7630	Verde	FS	1951
9R10PSPRT	Hawley Lake	13	7N	24E	8300	Salt	BIA	1966
10R4PSPRT	Heber	28	11N	15E	7600	Little Colorado	SCS	1950
8S9A	Hummingbird	19	11S	17W**	10550	Gila	SCS	1964
11P9P	Inner Basin #1	28	23N	7E	10000	Little Colorado	SCS-CF*	1967
11P8P	Inner Basin #2	28	23N	7E	9750	Little Colorado	SCS	1967
12R2	Iron Springs	22	14N	3W	6200	Little Colorado	SCS	1946
11P12	Lake Mary	21	19N	9E	6930	Little Colorado	SCS	1975
7S3PSPRT	Lookout Mountain	1	10S	10W	8500	Gila	SCS	1978
9S2APSPRT	Maverick Fork	13	6N	27E	9150	Salt	SCS	1950
7T3A	McKnight Cabin	10	15S	10W**	9300	Mimbres	SCS	1967
9R2PSPRT	McNary	23	8N	23E	7200	Salt	BIA	1939
9R1	Milk Ranch	33	8N	23E	7000	Salt	BIA	1941
12R3	Mingus Mountain	3	15N	2E	7100	Verde	SCS	1947
8S2	Mogollon	2	11S	19W**	7000	San Francisco	SCS	1953
11R4	Mormon Lake	13	18N	8E	7350	Little Colorado	SCS	1947
11R3APSPRT	Mormon Mountain	14	18N	8E	7500	Verde	SCS	1950
11R11	Mormon Mountain Summit #2	2	18N	8E	8470	Little Colorado	SCS	1975
9S12A	Mt. Ord	4	6N	26E	11200	Salt	SRP-SCS	1966
11P5	Newman Park	25	19N	6E	6750	Verde	SCS	1963
9S4	Nutrioso	23	6N	30E	8500	San Francisco	FS	1938
11R10PSPRT	Promontory Butte	5	11N	13E	7930	Little Colorado	SCS	1973
8S7	Redstone Trail	5	11S	18W**	8600	San Francisco	SCS	1961
10T2	Rose Canyon	15	12S	16E	7300	Gila	FS	1948
8T1PSPRT	Signal Peak	13	16S	13W	8360	Gila	SCS	1977
8S8PSPRT	Silver Creek Divide	4	11S	18W**	9000	San Francisco	SCS	1964
9S14A	Smith Cienega	10	6N	26E	10050	Salt	SRP-SCS	1966
11P4	Snow Bowl #1	36	23N	6E	10260	Verde	FS	1961
11P6	Snow Bowl #2	31	23N	7E	11000	Verde	FS	1965
9S8	State Line	6	6S	21W**	8000	San Francisco	FS	1938
9S17	Sunrise Summit	36	7N	26E	10600	Salt	SCS	1972
11R8PSPRT	Sugarloaf	8	8E	14N	6120	Verde	SCS	1978
12P2PSPRT	White Horse Lake Jct.	2	20N	2E	7180	Verde	FS	1967
12R5	White Spar	19	13N	2W	6000	Verde	SCS	1963
8S10A	Whitewater	19	11S	17W**	10750	Gila	SCS	1964
12P3	Williams Ski Run	9	21N	2E	7720	Cataract	FS	1967
9R6P	Wilson Lake	4	7N	26E	9000	Salt	SCS	1966
10S1PSPRT	Workman Creek	33	6N	14E	6900	Salt	FS	1952

A Aerial Snow Depth Marker

P Precipitation Storage Gage

R Radio Telemetry (SNOTEL)

SP Snow Pressure Pillow

T Temperature

** NM Principal Meridian

* City of Flagstaff

***The Following Organizations Cooperate
in the Arizona Snow Survey Work***

FEDERAL

Department of Agriculture
Soil Conservation Service
Forest Service
 Apache-Sitgreaves Forest
 Coconino Forest
 Coronado Forest
 Gila Forest
 Kaibab Forest
 Prescott Forest
 Rocky Mountain Forest and Range
 Experiment Station
 Tonto Forest
Department of Commerce
 NOAA, National Weather Service
Department of Interior
 Bureau of Reclamation
 Region III
 Geological Survey
 Arizona District
 New Mexico District
 Bureau of Indian Affairs
 Fort Apache Reservation
 San Carlos Irrigation Project
 National Park Service
 Grand Canyon National Park
Gila Water Commissioner
 Safford, Arizona

STATE

Arizona Game and Fish Department
Arizona State Parks Board
Arizona Department of Water Resources
University of Arizona
 Arizona Agricultural Experiment Station
 Water Resource Research Center
 Department of Watershed Management

MUNICIPAL

City of Flagstaff

**IRRIGATION
PROJECTS**

Salt River Valley Water User's Association
 Phoenix, Arizona
San Carlos Irrigation and Drainage District
 Coolidge, Arizona
Maricopa County Municipal Water Conservation District
 Peoria, Arizona

PRIVATE

Southwest Forest Industries, Inc.
 Phoenix, Arizona
Fort Apache Indian Reservation
 White Mountain Recreation Enterprises

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.



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—
“The Conservation of Water begins
with the Snow Survey”